					DEPARTMEN	IT OF NA	OF UTAH ATURAL RESC GAS AND MII					AMENDED RE	FORM 3 PORT	•
		APPL	ICATION FOR	PERM	IT TO DRILL					1. WELL N	IAME and NU	MBER Ite Tribal 19-11	I G	
2. TYPE OF W		L NEW WELL 📵	REENTER P&	A WELL	DEEPEI	N WELL ()			3. FIELD OR WILDCAT ANTELOPE CREEK				
4. TYPE OF W	/ELL	Oil W	'ell Coalhe	d Meth	ane Well: NO					5. UNIT o		IZATION AGRE		AME
Oil Well Coalbed Methane Well: NO 6. NAME OF OPERATOR PETROGLYPH OPERATING CO										7. OPERA	TOR PHONE	208 685-7674		
8. ADDRESS	OF OPERATOR	202.5								9. OPERA	TOR E-MAIL			
	LEASE NUMBER		oadway Ave, Ste		NERAL OWNER	SHIP				12. SURF	CE OWNERS	bwest@pgei.co	m 	
(FEDERAL, IN	NDIAN, OR STATE 14-20-F	162-3514		FED	ERAL N	IDIAN 值) STATE) FEE(2	FEDERA	L IND	IAN 📵 STA	ATE 💭	FEE
13. NAME OF	SURFACE OWNE	R (if box 12 = 'fe	ee')							14. SURF	ACE OWNER	PHONE (if box	12 = 'fee')
15. ADDRESS	S OF SURFACE O	WNER (if box 12	= 'fee')							16. SURF	ACE OWNER	E-MAIL (if box	(12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Indian Tribe 18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES (Submit Commingling Application) NO										19. SLAN	AL DIR	ECTIONAL 📵	HORIZO	NTAL 🔵
20. LOCATIO	ON OF WELL		FC	OTAGE	S	Q	TR-QTR	S CT	TION	тои	VNSHIP	RANGE		MERIDIAN
LOCATION	AT SURFACE		2245 FS	SL 149	6 FWL		NESW			5	.0 S	3.0 W		U
Top of Uppe	ermost Producing	Zone	2580 FN	IL 263	0 FWL		SEMA	19	9	5	.0 S	3.0 W		U
At Total De	pth		2580 FN	IL 263	0 FWL		SELVIV	19	9	5	.0 S	3.0 W		U
21. COUNTY		HESNE		22. DIS	STANCE TO N	AREST L	EASE LINE (Fe	eet)		23. NUMBER OF ACRES IN DRILLING UNIT 640				
						or Com	VELL IN SAME pleted) 003	POOL		26. PROP	OSED DEPTH MD:	5785 TVD:	5595	
27. ELEVATION	ON - GROUND LE	/EL		28. BO	ND NUMBER					29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE				
	60)79		>	Uala Casin		138153 Cement Info					43-8342		
String	Hole Size	Casing Siz	e Lengt	h	Weight	<u> </u>	le & Thread		Max Mud	Wt	Cement	Sacks	Yield	Weight
COND	20	14	0 - 5		5.0		Jnknown		10.0		Class G	25	1.17	15.8
SURF	12.25	8.625	0 - 49	5	24.0	J.	-55 ST&C		10.0		Class G	227	1.17	15.8
PROD	7.875	5.5	0 - 57	85	15.5	J.	-55 LT&C		10.0		Class G	444	1.92	12.5
											Class G	308	1.46	13.4
					ı	ATTACI	HMENTS							
	VERIFY 1	THE FOLLOWI	NG ARE ATTAC	HED I	IN ACCORDA	NCE WI	TH THE UTA	H OIL AN	ND GAS	CONSER	VATION GE	ENERAL RUL	ES	
W ELL	PLAT OR MAP PR	EPARED BY LICE	ENSED SURVEYO	R OR EI	NGINEER		I COMF	PLETE DRI	ILLING PL	AN				
AFFID	FORM	5. IF OPE	RATOR IS	OTHER T	HAN THE LE	ASE OWNER								
DIREC	DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED) TOPOGRAPHICAL MAP													
NAME Ed Tr	otter				TITLE Agent		1		PHONE	435 789	-4120			
SIGNATURE					DATE 07/02/	/2012			EMAIL	NL edtrotter@easilink.com				
API NUMBER ASSIGNED APPROVAL 43013515230000								Bacqill						
								Po	Permit Manager					

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NINE POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 19-11G NE SW, SEC 19, T5S, R3W DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation		Subsea	TVD	MD
Rig KB=~15' above GGL		6094	0	0
Surface Formation = Uinta				
Uinta		6079	15	15
Green River		4977	1117	1118
Trona		3677	2417	2466
Mahogany Shale		3528	2566	2624
"B" Marker	- - -	2445	3649	3787
"X" Marker))) (1962	4132	4301
Douglas Creek Marker	orfice Inte	1821	4273	4448
"B" Limestone	Waterflood Unit Interval	1436	3649	4843
Base Castle Peak Limestone	> 5	871	5223	5413
BSCARB		452	0	0
Wasatch		194	NDE	NDE
Rig TD		499	5595	5785

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Substance	Formation	Subsea	TVD	MD
Base of moderately saline ground	not present	6100	0	0
water*				
Oil/Gas	Douglas Creek	1821	4273	4448
Oil/Gas	Castle Peak	871	5223	5413

Any water encountered during drilling shall be sampled, analyzed and reported to the BLM Vernal office using State of Utah DOGM Form 7 *Report of Water Encountered during Drilling*. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest) Temperature pH TDS

Dissolved Iron Dissolved Magnesium Dissolved Bicarb. Dissolved Sulfate
Dissolved Calcium Dissolved Sodium Dissolved Carbonate Dissolved Chloride

All depths through the "Base of moderately saline ground water", along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

*Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



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NINE POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 19-11G NE SW, SEC 19, T5S, R3W DUCHESNE COUNTY, UTAH

3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	54.5'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	494.5'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	5785'	15.5	J-55	LTC

String	Hole	Casing	Collapse	Burst	Tens	e
Surface	12-1/4"	8-5/8"	1,370 psi	2,950 psi	244,000	
Production	7-7/8"	5-1/2"	4,040 psi	4,810 psi	248,000	Íb

- All casing will be new or inspected.
- The surface and production strings shall have unininum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a minimum of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 3.87" MD.

4. PROPOSED CEMENTING PROGRAM:

String	Bottom	Cement Description	Sacks Vol (ft³)	Excess	Weight (ppg)	Yield (ft³/sk)	
Conductor	0 54.5	Construction Grade Cement	Sufficien	nt volumes	to grout Co	onductor	
Surface	0	Class G +2% CaCl2	227	30%	15.8	1.17	
Curraco	494.5	+0.25 lb/sk Cello Flake	265	0070	1010		
Production	0	EXPANDACEM (Class G +additives)	444	30%	12.5	1.92	
Lead	3787	+ 1 lb/sk Granulite TR1/4 (LCM)	853	30 /6	12.5	1.32	
Production 3787 Tail 5785		EXPANDACEM (Class G +additives)	308	30%	13.4	1.46	
		+ 1 lb/sk Granulite TR1/4 (LCM)	450	JU /0	13.4	1.40	

- The 8-5/8" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, a remedial surface cementing operation shall be performed only if necessary to lift cement above the Surface Casing Shoe at 480'MD.



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PETROGLYPH OPERATING COMPANY, INC
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5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

- An 8", 2000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- A 2000 PSI Working Pressure Annular shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 2,000 psi BOP schematic diagram.

BOPE TESTING PROCEDURE:

• The BOPE shall be tested by a professional tester to conform to prishore Order #2.

6. MUD PROGRAM:

A. SURFACE HOLE

- The surface hole will be drilled with an air/mist system from 0' to 494.5'. All cutting shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-oit valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
 - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
 - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
 - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
 - Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.



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NINE POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 19-11G NE SW, SEC 19, T5S, R3W DUCHESNE COUNTY, UTAH

B. PRODUCTION HOLE

- The production hole shall be drilled with a freshwater polymer system from 494.5' to 5785'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.8 lbs/gal. although mud weight up to 10lbs/gal may be used if necessary to prevent wellbore wall instability due to the planned inclination of the well.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10.5 lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include a least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- A mud-gas separator shall be available on location. Operator does not plan on using a gas detector on the mud return due to the fact that any abnormal pressure is the result of offset water injection.

C. <u>HAZARDOUS MATERIALS AND POLLUTANTS</u>

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior BLM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities shall NOT be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.



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7. EVALUATION PROGRAM:

Logs: Triple Combo TD to base of surface casing (AIT, DSN, CDL)

Base of surface casing to surface (GR)

Cores: None planned

DST: None planned

Testing: Operator plans no testing until the completion phase of the tell.

8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

- Operator anticipates Bottom Hole Temperatures below 50°F, the maximum temperature for DAP drilling fluids.
- No H₂S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocart on bearing zones at native conditions in this area is approximately 1446.25 RSI 6.25 PSI/ft gradient).
- This well is in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PM/ft gradient(2505 PSI).

9. DIRECTIONAL WELL PLAN:

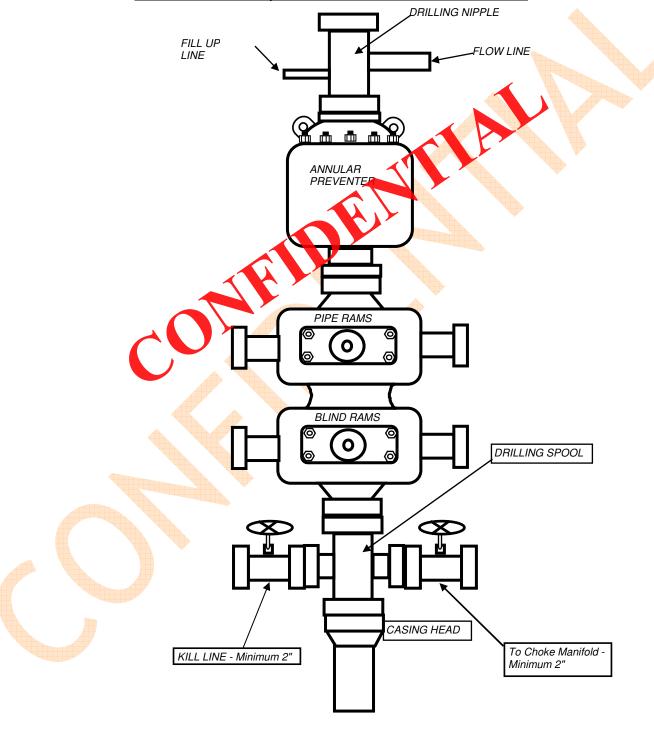
- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- While cutting the Waterflood Unit Interval from 3787' to 0', the actual well path may be allowed to vary up to 100' horizontally from plan in order to prevent excessive slide drilling. Above and below the Waterflood Unit Interval, variances in excess 100' horizontally from plan may be allowed.
- Directional drilling plan is attached.



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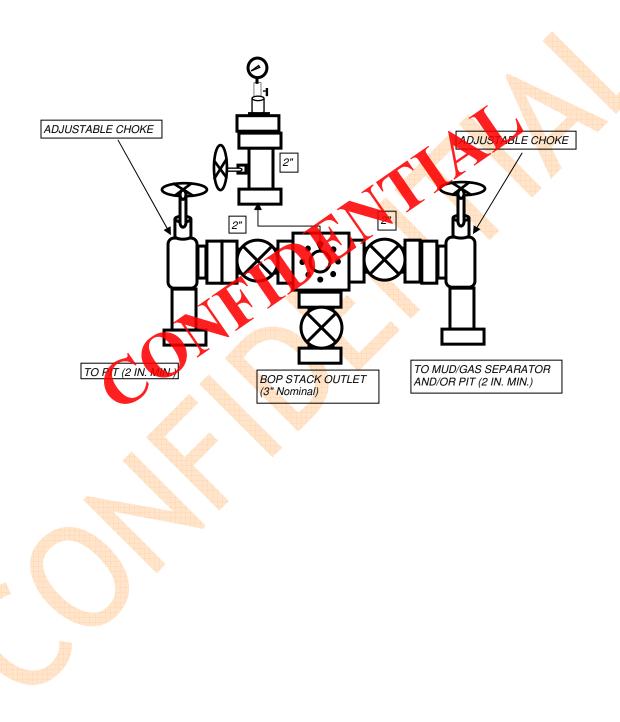
NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 19-11G
NE SW, SEC 19, T5S, R3W
DUCHESNE COUNTY, UTAH

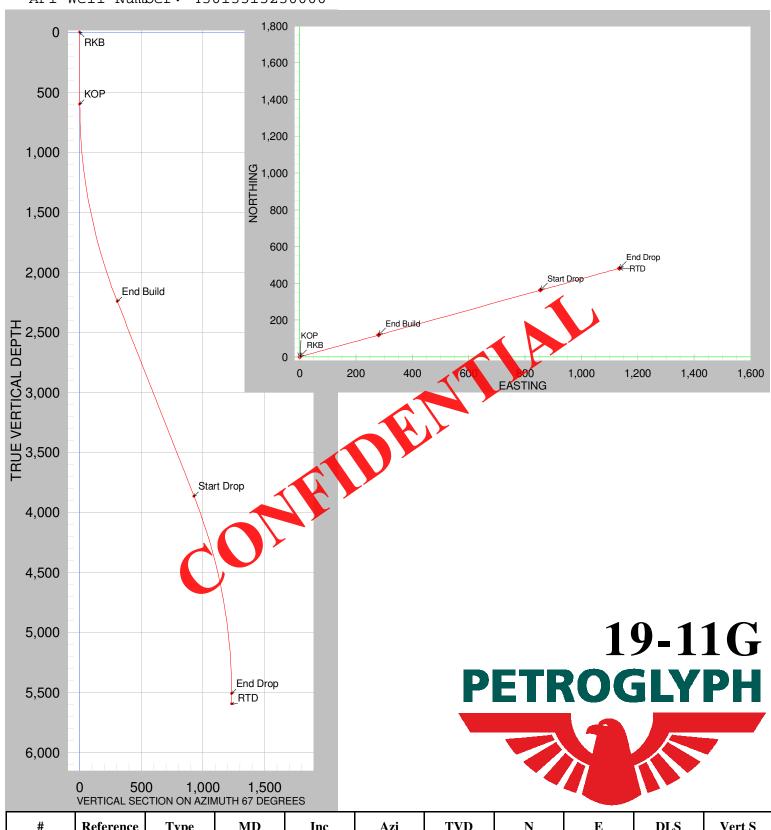
TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER



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PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 19-11G
NE SW, SEC 19, T5S, R3W
DUCHESNE COUNTY, UTAH
TYPICAL 2,000 p.s.i. CHOKE MANIFOLD





#	Reference	Туре	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	KOP	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	2280.00	21.00	67.00	2242.64	118.96	280.24	1.25	304.44
3	Start Drop	Tangent	4020.00	21.00	67.00	3867.07	362.60	854.23	0.00	928.01
4	End Drop	Drop	5700.00	0.00	0.00	5509.71	481.56	1134.48	1.25	1232.45
5	RTD	Vertical	5785.00	0.00	0.00	5594.71	481.56	1134.48	0.00	1232.45

RECEIVED: July 02, 2012

SES - Stoner Engineering Software

	19-11G, Plan 1										
Operator Field Well Name Plan					feet, %100ft		10:4 Ver t	18 Wednesday, April ical Section Azimuth y Calculation Method Database	67 Minimum Curvat		
Locatio Sit						MapZo Surfac		Lat Long Surface I			
Slot Nam			UWI			Surfac		Surface	_		
Well Number			API			Z Datu	ım				
Proje	ect					Surface	Z	Ground L	_evel		
DIRECTIONAL WELL PLAN											
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* Sys	*TVD	
ft	deg	deg	ft	ft	ft	%100ft	ft	ft	ft	ft	
*** RKB (at											
0.00	0.00	0.0	0.00	0.00	0.00	2.55	0.00				
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00				
100.00 150.00	0.00 0.00	0.0 0.0	100.00 150.00	0.00	0.00 0.00	0.00 0.00	0.00				
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00				
						$\gamma \setminus \gamma$					
250.00	0.00	0.0	250.00	0.00	0.00	0.00					
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00				
350.00	0.00	0.0	350.00	0.00	0.0	0.00	0.00				
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00				
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00				
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00				
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00				
*** KOP (at		_									
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00				
650.00	0.63	67.0	650.00	0.11	0.25	1.25	0.27				
700.00	1.25	67.0	699.99	0.43	1.00	1.25	1.09				
750.00	1.88	67.0	749.97	0.96	2.26	1.25	2.45				
800.00	2.50	67.0	799.94	1.70	4.02	1.25	4.36				
850.00	3.13	67.0	849.88	2.66	6.27	1.25	6.82				
900.00	3.75	67.0	899.79	3.83	9.03	1.25	9.81				
950.00	4.38	67.0	949.66	5.22	12.29	1.25	13.36				
1000.00	5.00	67.0	999.49	6.82	16.06	1.25	17.44				
1050.00	5.63	67.0	1049.28	8.62	20.32	1.25	22.07				
1100.00	6.25	67.0	1099.01	10.65	25.08	1.25	27.24				
1150.00	6.88	67.0	1148.68	12.88	30.34	1.25	32.96				
1200.00	7.50	67.0	1198.29	15.32	36.10	1.25	39.21				
1250.00	8.13	67.0	1247.82	17.98	42.35	1.25	46.01				
1300.00	8.75	67.0	1297.28	20.84	49.11	1.25	53.35				
1350.00	9.38	67.0	1346.66	23.92	56.36	1.25	61.22				
1400.00	10.00	67.0	1395.94	27.21	64.10	1.25	69.64				
1450.00	10.63	67.0	1445.14	30.71	72.34	1.25	78.59				
1500.00	11.25	67.0	1494.23	34.41	81.07	1.25	88.07				
1550.00	11.23	67.0	1543.21	38.33	90.30	1.25	98.10				
1600.00	12.50	67.0	1592.09	42.45	100.01	1.25	108.65				
1650.00	13.13	67.0	1640.84	46.79	110.22	1.25	119.74				

SES - Stoner Engineering Software

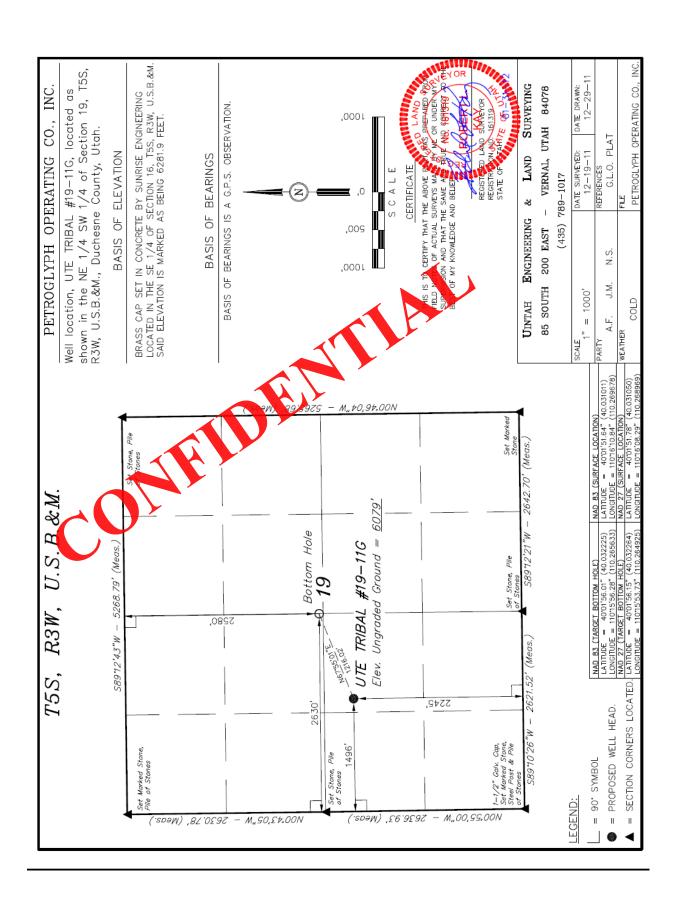
19-11G, Plan 1											
Operator Field Well Name Plan					feet, %100ft		10:48 Vertica	Wednesday, April al Section Azimuth Calculation Method Database	67 Minimum Curvat		
Locatio Sit Slot Nam Well Numbe Projec	te ne er		UWI API			Surface Surface Z Datu	MapZone Lat Long F SurfaceX Surface Lo SurfaceY Surface I Z Datum Surface Z Ground Le		ong Lat		
DIRECTIONA		LAN				Surface		Ground L			
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* Sys	TVD*	
ft	deg	deg	ft	ft	ft	%100ft	v. o. ft	ft	mapre bys	ft	
1700.00	13.75	67.0	1689.47	51.33	120.92	1.25	131.36				
							1				
1750.00	14.38	67.0	1737.97	56.07	132.10	1.25	143.51				
1800.00	15.00	67.0	1786.34	61.03	143.77	1.25	156.18				
1850.00	15.63	67.0	1834.56	66.19	155.92	1.25	169.39				
1900.00	16.25	67.0	1882.64	71.55	168.56		183.12				
1950.00	16.88	67.0	1930.57	77.12	181.68	1.25	197.37				
2000.00	17.50	67.0	1978.33	82.89	195_28	1.25	212.15				
2050.00	18.13	67.0	2025.94	88.87	209.36	1.25	227.44				
2100.00	18.75	67.0	2073.37	95.05	223.92	1.25	243.25				
2150.00	19.38	67.0	2120.63	101.48	238.95	1.25	259.58				
2200.00	20.00	67.0	2167.70	108.01	254.45	1.25	276.43				
0050.00	00.00	07.0			070.40	4.05	000 70				
2250.00 *** END BUI	20.63	67.0	2214.60	114.79	270.43	1.25	293.79				
2280.00	21.00	67.0	2242.64	118.96	280.24	1.25	304.44				
2300.00	21.00	67.0	2261.31	121.76	286.84	0.00	311.61				
2350.00	21.00	67.0	2307.99	128.76	303.33	0.00	329.53				
2400.00	21.00	67.0	2354.67	135.76	319.83	0.00	347.45				
2450.00	21.00	67.0	2401.35	142.76	336.32	0.00	365.37				
2500.00	21.00	67.0	2448.03	149.76	352.82	0.00	383.29				
2550.00	21.00	67.0	2494.70	156.76	369.31	0.00	401.20				
2600.00	21.00	67.0	2541.38	163.76	385.80	0.00	419.12				
2650.00	21.00	67.0	2588.06	170.77	402.30	0.00	437.04				
2700.00	21.00	67.0	2634.74	177.77	418.79	0.00	454.96				
2750.00	21.00	67.0	2681.42	184.77	435.29	0.00	472.88				
2800.00	21.00	67.0	2728.10	191.77	451.78	0.00	490.80				
2850.00	21.00	67.0	2774.78	198.77	468.27	0.00	508.71				
2900.00	21.00	67.0	2821.46	205.77	484.77	0.00	526.63				
2950.00	21.00	67.0	2868.14	212.77	501.26	0.00	544.55				
3000.00	21.00	67.0	2914.82	219.77	517.76	0.00	562.47				
3050.00	21.00	67.0	2961.49	226.78	534.25	0.00	580.39				
3100.00	21.00	67.0	3008.17	233.78	550.74	0.00	598.31				
3150.00	21.00	67.0	3054.85	240.78	567.24	0.00	616.23				
3200.00	21.00	67.0	3101.53	247.78	583.73	0.00	634.14				
3250.00	21.00	67.0	3148.21	254.78	600.23	0.00	652.06				
3300.00	21.00	67.0	3194.89	261.78	616.72	0.00	669.98				
3300.00	21.00	67.0	3194.89	261.78	616.72	0.00	669.98				

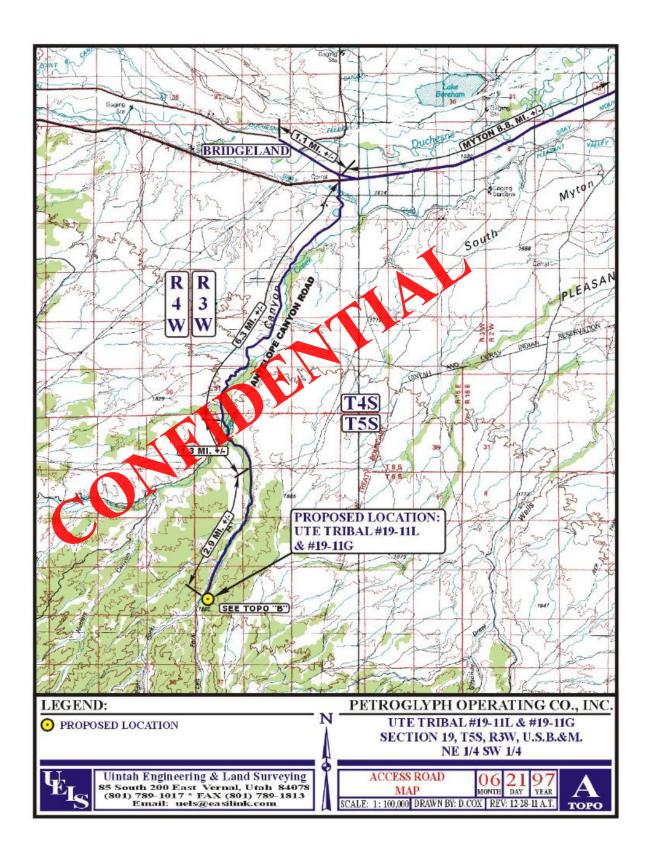
SES - Stoner Engineering Software

				1	9-11G,	Plan 1					
Operator Field Well Name Plan				Units County State Country	feet, %100ft		Vertic	Wednesday, April al Section Azimuth Calculation Method Database	67 Minimum Curva		
Locatio Si Slot Nam Well Numbe	te ne er		UWI API			MapZor Surface Surface Z Datu	rfaceX Surface L rfaceY Surface Datum		Long e Lat		
Proje						Surface	• Z	Ground L	.evel		
DIRECTIONA			TVD+	NI+	-	DI O*		M E+	Manakit Ora	- T\/D+	
MD*	INC*	AZI*	TVD*	N* ft	E *	DLS* %100ft	V. S. *	MapE*	MapN* Sy	°עsivu ft	
	deg	deg						TI.	11	IL	
3350.00	21.00	67.0	3241.57	268.78	633.21	0.00	687.90				
3400.00	21.00	67.0	3288.25	275.78	649.71	0.00	705.82				
3450.00	21.00	67.0	3334.93	282.79	666.20	0.00	723.74				
3500.00	21.00	67.0	3381.61	289.79	682.70	0.00	74 65				
3550.00	21.00	67.0	3428.28	296.79	699.19	0.00	759.57				
3600.00	21.00	67.0	3474.96	303.79	715.68	0.00	777.49				
3650.00	21.00	67.0	3521.64	310.79	732.18	00.0					
3700.00	21.00	67.0	3568.32	317.79	748.67	0.00	813.33				
3750.00	21.00	67.0	3615.00	324.79	765.17	0.00	831.25				
3800.00	21.00	67.0	3661.68	33 79	781.66	0.00	849.16				
3850.00	21.00	67.0	3708.36	338.80	798.15	0.00	867.08				
3900.00	21.00	67.0	3755.04	345.80	814.65	0.00	885.00				
3950.00	21.00	67.0	3801.72	352.80	831.14	0.00	902.92				
4000.00	21.00	67.0	3848.40	359.80	847.64	0.00	920.84				
*** START D	DROP (at I	MD = 402	2000)								
4020.00	21.00	67.0	3867.07	362.60	854.23	0.00	928.01				
4050.00	20.63	67.0	3895.11	366.77	864.05	1.25	938.66				
4100.00	20.00	67.0	3942.00	373.55	880.02	1.25	956.02				
4150.00	19.38	67.0	3989.08	380.13	895.53	1.25	972.87				
4200.00	18.75	67.0	4036.34	386.51	910.56	1.25	989.20				
4250.00	18.13	67.0	4083.77	392.69	925.12	1.25	1005.01				
4300.00	17.50	67.0	4131.37	398.66	939.19	1.25	1020.30				
4350.00	16.88	67.0	4179.14	404.44	952.80	1.25	1035.08				
4400.00				410.01		1.05					
4400.00	16.25	67.0	4227.06 4275.14	410.01	965.92 978.55	1.25	1049.33				
4450.00	15.63	67.0	4275.14	415.37		1.25	1063.06				
4500.00	15.00	67.0	4323.37 4371.73	420.53	990.71	1.25	1076.27				
4550.00 4600.00	14.38	67.0		425.48	1002.38	1.25 1.25	1088.94				
4000.00	13.75	67.0	4420.23	430.23	1013.56	1.20	1101.09				
4650.00	13.13	67.0	4468.86	434.77	1024.26	1.25	1112.71				
4700.00	12.50	67.0	4517.62	439.10	1034.46	1.25	1123.80				
4750.00	11.88	67.0	4566.49	443.23	1044.18	1.25	1134.35				
4800.00	11.25	67.0	4615.48	447.14	1053.40	1.25	1144.38				
4850.00	10.63	67.0	4664.57	450.85	1062.14	1.25	1153.86				
4000.00	40.00	07.0	4740 70	45405	4070.00	4.65	4400.01				
4900.00	10.00	67.0	4713.76	454.35	1070.38	1.25	1162.81				
4950.00	9.38	67.0	4763.05	457.64	1078.12	1.25	1171.23				

SES - Stoner Engineering Software

19-11G, Plan 1											
Operator Field Well Name Plan				Units County State Country	feet, %100ft		Vertic	al Section Azimut Calculation Metho	ril 18, 2012 Page h 67 d Minimum Curvatu e Access		
Locatio Sit Slot Nam	te		UWI			MapZo Surface Surface	eΧ	Lat Lor Surface Surfa			
Well Numbe Projec			API			Z Datu Surface	m	Ground Level			
DIRECTIONA	L WELL P	LAN									
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* Sys	TVD*	
ft	deg	deg	ft	ft	ft	%100ft	ft	ft	ft	ft	
5000.00	8.75	67.0	4812.42	460.71	1085.37	1.25	1179.10				
5050.00	8.13	67.0	4861.88	463.58	1092.12	1.25	1186.44				
5100.00	7.50	67.0	4911.42	466.23	1098.38	1.25	1198,24	L >			
5150.00	6.88	67.0	4961.02	468.68	1104.14	1.25	1139 49				
5200.00	6.25	67.0	5010.70	470.91	1109.40	1.25	1205.21				
5250.00	5.63	67.0	5060.43	472.93	1114.16	1.25	1210.38				
5300.00	5.00	67.0	5110.21	474.74	1118.42	1.25	1215.01				
5350.00	4.38	67.0	5160.05	476.34	1122.18	1.25	1219.09				
0000.00		0.10	0.00.00			0					
5400.00	3.75	67.0	5209.92	477.72	1125.44	1.25	1222.64				
5450.00	3.13	67.0	5259.83	478.89	128.20	1.25	1225.63				
5500.00	2.50	67.0	5309.77	479.85	1130.46	1.25	1228.09				
5550.00	1.88	67.0	5359.73	480.60	1132.22	1.25	1230.00				
5600.00	1.25	67.0	409.7	481.13	1133.47	1.25	1231.36				
5650.00	0.63	67.0	5459.71	481.45	1134.23	1.25	1232.18				
*** END DR				401.40	1104.20	1.20	1202.10				
5700.00	0.00	0.0	5509.71	481.56	1134.48	1.25	1232.45				
5750.00	0.00	0.0	5559.71	481.56	1134.48	0.00	1232.45				
*** RTD (at	MD = 578										
5785.00	0.00	0.0	5594.71	481.56	1134.48	0.00	1232.45				





PETROGLYPH OPERATING CO., INC. P.O. BOX 607 **ROOSEVELT, UTAH 84066**

July 2, 2012

Ms. Diana Mason State of Utah Division of Oil, Gas & Mining 1594 West North Temple, Suite 1210 P.O. Box 145801 Salt Lake City, UT 84114-5801

Re: Directional Drilling R649-3-11

Ute Tribal 19-11G: 2245' FSL & 1496' FWL, NE/SW, (Surface Ho. 2580' FNL & 2630' FWL, SE/NW (Botton Hole),

Sec. 19, T5S, R3W, U.S.B.&M., Duch sne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Petroglyph Operating Co., Inc.'s Application for Permit to Drill regarding the above referenced well on July 2,2012 we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule 1649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The Ute Tribal 19-11 ocated within the Antelope Creek Unit Area.
- Petroglyph Operating Co., Inc. is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and drilling directionally from this location, Petroglyph Operating Co., Inc. will be able to utilize the existing road and pipelines in the area.
- Furthermore, Petroglyph Operating Co., Inc. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Petroglyph Operating Co., Inc. requests the permit be granted pursuant to R649-3-11.

Respectfully Submitted,

Ed Trotter, Agent P.O. Box 1910 Vernal, UT 84078 Phone: (435)789-4120 Fax: (435)789-1420

E-mail: edtrotter@easilink.com

RECEIVED: July 02, 2012

Certification

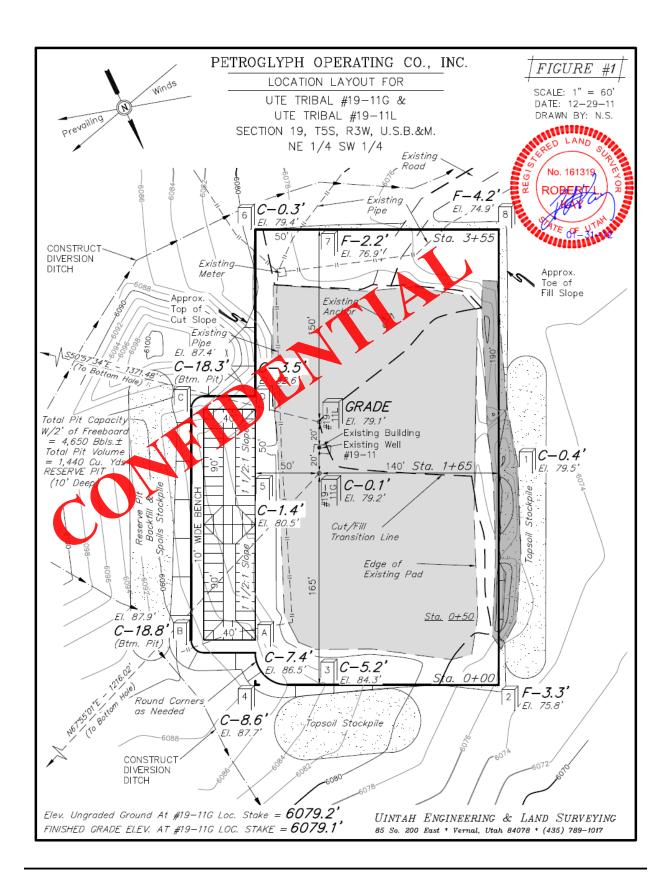
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

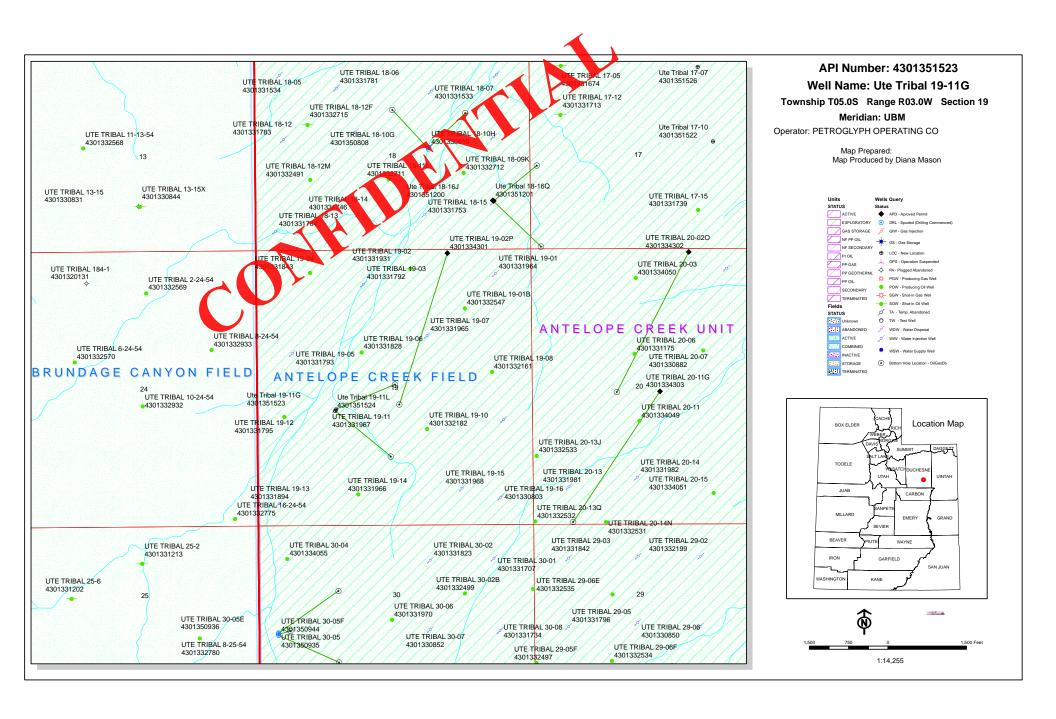
Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the UTE TRIBAL 19-11G Well, located in the NE/SW of Section 19, T5S, R3W, Duchesne County, Utah; Lease #14-20-H62-3514; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #LP4138153.

Date

Ed Trotter, as Agent for Petroglyph Operating Co., Inc.

Document1 1





WORKSHEET APPLICATION FOR PERMIT TO DRILL

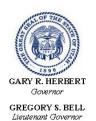
APD RECEIVED: 7/2/2012 API NO. ASSIGNED: 43013515230000 WELL NAME: Ute Tribal 19-11G **OPERATOR: PETROGLYPH OPERATING CO (N3800)** PHONE NUMBER: 435 789-4120 **CONTACT:** Ed Trotter PROPOSED LOCATION: NESW 19 050S 030W Permit Tech Review: SURFACE: 2245 FSL 1496 FWL **Engineering Review:** BOTTOM: 2580 FNL 2630 FWL Geology Review: **COUNTY: DUCHESNE LATITUDE**: 40.03096 LONGITUDE: -110.26962 UTM SURF EASTINGS: 562317.00 NORTHINGS: 4431449.00 FIELD NAME: ANTELOPE CREEK LEASE TYPE: 2 - Indian LEASE NUMBER: 14-20-H62-3514 PRODUCING FORMATION(S): CASTLE PEAK SURFACE OWNER: 2 - Indian **COALBED METHANE: NO RECEIVED AND/OR REVIEWED:** LOCATION AND SITING: ✓ PLAT R649-2-3. Unit: ANTELOPE CREEK Bond: INDIAN - LP4138153 **Potash** R649-3-2. General Oil Shale 190-5 Oil Shale 190-3 R649-3-3. Exception **Drilling Unit** Oil Shale 190-13 Board Cause No: Cause 214-2 Water Permit: 43-8342 Effective Date: 6/9/2000 **RDCC Review:** Siting: Suspends General Siting Fee Surface Agreement Intent to Commingle R649-3-11. Directional Drill

Comments: Presite Completed

Commingling Approved

Stipulations: 4 - Federal Approval - dmason

15 - Directional - dmason



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Ute Tribal 19-11G
API Well Number: 43013515230000
Lease Number: 14-20-H62-3514

Surface Owner: INDIAN Approval Date: 7/3/2012

Issued to:

PETROGLYPH OPERATING CO, 960 Broadway Ave, Ste 500, Bosie, ID 83703

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 214-2. The expected producing formation or pool is the CASTLE PEAK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil &

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas Sundry Number: 33618 API Well Number: 43013515230000

	STATE OF UTAH			FORM 9
ı	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI			5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3514
SUNDR	RY NOTICES AND REPORTS	ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon n for such proposals.		CATION 1	7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: UTE TRIBAL 19-11G
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	20			9. API NUMBER: 43013515230000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste	500 , Bosie, ID, 83703	PHONE NUMBER: 208 685-7685 Ext		9. FIELD and POOL or WILDCAT: ANTELOPE CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2245 FSL 1496 FWL			COUNTY: DUCHESNE	
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NESW Section:		STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE	, REPORT	, OR OTHER DATA
TYPE OF SUBMISSION		ION		
_	ACIDIZE		CASING REPAIR	
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING		CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORM	MATIONS	CONVERT WELL TYPE
Date of Work Completion:	DEEPEN	FRACTURE TREAT		NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON		PLUG BACK
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE		RECOMPLETE DIFFERENT FORMATION
1/4/2013	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL		TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE		WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION		APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER		OTHER:
	COMPLETED OPERATIONS. Clearly show			Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 04, 2013
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMI 435 722-5302	pliance Spo	C	
SIGNATURE		DATE 1/4/2013		
N/A		1/4/2013		

Form 3160-3 (August 2007) RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AUG 2 1 2012

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

Expires July 31, 2010

 Lease Serial No. 1420H623514

AFFEIGATION FOR FERINIT	o. If fildial, Affolice of Tribe Name			
Ia. Type of Work: ☑ DRILL ☐ REENTER	CONFIDENTIAL	7. If Unit or CA Agreement, Name and No. 1420H624650		
1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Ot		8. Lease Name and Well No. UTE TRIBAL 19-11G		
2. Name of Operator Contact: PETROGLYPH OPERATING CO., INVail: edtrotte	ED H TROTTER r@easilink.com	9. API Well No. 43-013-51523		
3a. Address P.O. BOX 607 ROOSEVELT, UT 84066	3b. Phone No. (include area code) Ph: 435-789-4120 Fx: 435-789-1420	10. Field and Pool, or Exploratory ANTELOPE CREEK		
4. Location of Well (Report location clearly and in accord	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area		
At surface NESW 2245FSL 1496FWI	-	Sec 19 T5S R3W Mer UBM		
At proposed prod. zone SENW 2580FNL 2630FWI	-			
 Distance in miles and direction from nearest town or post 19.4 MILES SOUTHWEST OF MYTON, UT 	office*	12. County or Parish 13. State DUCHESNE UT		
 Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1496' 	16. No. of Acres in Lease 640.00	17. Spacing Unit dedicated to this well		
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1003' 	19. Proposed Depth 5785 MD 5595 TVD	20. BLM/BIA Bond No. on file LPM4138335		
21. Elevations (Show whether DF, KB, RT, GL, etc. 6079 GL	22. Approximate date work will start 10/15/2012	23. Estimated duration 45 DAYS		
	24. Attachments			
The following, completed in accordance with the requirements of	f Onshore Oil and Gas Order No. 1, shall be attached to t	his form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Systa SUPO shall be filed with the appropriate Forest Service Off 	Item 20 above). 5. Operator certification 6. Such other site specific inf authorized officer.	ormation and/or plans as may be required by the		
25. Signature (Electronic Submission)	Name (Printed/Typed) LESTER FARNSWORTH Ph: 435-722-2	Date 08/22/2012		
Title DISTRICT MANAGER				
Approved by (Signature)	Name (Printed/Typed)	Date		
ACTING John . Iswen	Johnny P. Louen	12-20-2018		
	,			
Application approval does not warrant or certify the applicant hoperations thereon. Conditions of approval if any, are attached.	ds legal or equitable title to those rights in the subject lea	se which would entitle the applicant to conduct		

Additional Operator Remarks (see next page)

Electronic Submission #146928 verified by the BLM Well Information System
For PETROGLYPH OPERATING CO., INC., sent to the Vernal
Committed to AFMSS for processing by LESLIFIED IN 108/29/2012 ()

JAN 07 2013

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

12/PH2MAA

NOS- 3/21/12.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT** VERNAL FIELD OFFICE

VERNAL. UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No: API No:

Petroglyph Operating Co. Inc.

UTE TRIBAL 19-11G

43-013-51523

Location: Lease No: NESW, Sec. 19, T5S, R3W

14-20-H62-3514

Agreement:

N/A

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	_	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- A <u>30'</u> foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- All Production Equipment will be painted Covert Green to help blend into the surrounding vegetation and meet VRM type objectives.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipelines.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- Petroglyph Operating Company will implement a "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, COA's, and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- The personnel from the Ute Tribe Energy & Minerals Department should be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Gamma Ray Log shall be run from Total Depth to Surface
- CBL will be run from TD to TOC.
- Cement for the surface casing will be circulated to the surface.
- Cement for long-string shall be circulated 200' above surface casing shoe.
- Variance Granted
 - Variance for Air-drilling is granted per APD

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the
 daily drilling report. Components shall be operated and tested as required by Onshore Oil &
 Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be
 performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be
 reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.

Page 4 of 6 Well: UTE TRIBAL 19-11G 12/19/2012

- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
 Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum
 Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 5 of 6 Well: UTE TRIBAL 19-11G 12/19/2012

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written
 communication and must be received in this office by not later than the fifth business day
 following the date on which the well is placed on production. The notification shall provide, as a
 minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - o Unit agreement and/or participating area name and number, if applicable.
 - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will
 be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be
 reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major
 Events" will be reported in writing within 15 days. "Minor Events" will be reported on the
 Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

Page 6 of 6 Well: UTE TRIBAL 19-11G 12/19/2012

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM. Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field
 Office Petroleum Engineers will be provided with a date and time for the initial meter calibration
 and all future meter proving schedules. A copy of the meter calibration reports shall be
 submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API
 standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All
 measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
 to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
 first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
 adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
 sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior
 approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
 before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Submitted By Rodrigo Jurado Pho Well Name/Number <u>Ute Tribal 19-</u> Qtr/Qtr <u>NESW</u> Section <u>19</u> Towns Lease Serial Number <u>14-20-H62-3</u> API Number <u>43-013-51523</u>	ne Number <u>435-722</u> 11G ship <u>5S</u> Range _	2-5302
Spud Notice – Spud is the initial spuout below a casing string.	ıdding of the well, n	ot drilling
Date/Time	AM 🗌 PM	1 🗌
Casing – Please report time casing ratimes. Surface Casing Intermediate Casing Production Casing Liner Other	un starts, not ceme	nting
Date/Time <u>1/9/2013</u> <u>12:</u>	00 AM 🖂 PM	
BOPE Initial BOPE test at surface case BOPE test at intermediate case 30 day BOPE test Other	ng point	RECEIVED JAN 08 2013 DIV. OF OIL, GAS & MINING
Date/Time	AM 🗌 PM	
_ , ,,, , , , , , , , , , , , , , , , ,		

Remarks We plan to run +/-500' of 8-5/8" J-55 Casing at the time indicated. (Sent 1/8/2013 @ 7:30 A.M.)



BLM - Vernal Field Office - Notification Form

Operator <u>Petroglyph Operating</u> Rig Name/# <u>C</u>	<u> Fraig's /Air rig</u>
Submitted By Rodrigo Jurado Phone Number 43	<u>5-722-5302</u>
Well Name/Number <u>Ute Tribal 19-11G</u>	
Qtr/Qtr NESW Section 19 Township 5S Rai	 nge3W
Lease Serial Number <u>14-20-H62-3514</u>	-
API Number43-013-51523	
Spud Notice – Spud is the initial spudding of the v	vell, not drilling
out below a casing string.	
D 1 /T: 1/2/2012 10:00 AM 💆	
Date/Time $\underline{1/2/2013}$ $\underline{10:00}$ AM \boxtimes	
Casing – Please report time casing run starts, not	cementing
times.	cernations
Surface Casing	
Intermediate Casing	
Production Casing	
Liner	
Other	
Date/Time AM _	PM 🗌
Date/Time An	,
BOPE	
Initial BOPE test at surface casing point	RECEIVED
BOPE test at intermediate casing point	JAN 02 2013
30 day BOPE test	
Other	DIV. OF OIL, GAS & MINING
Other	
Date/Time AM [PM

Remarks We plan to spud at the time indicated. We plan to set 40' of 16" Conductor. (Sent 12/31/2012 @ 11:15 A.M.)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

. '	ENTITY ACTION FORM						
Operator:	Petroglyph Operating Co	mpany	Operator Account Number:	N 3800			
Address:	P.O. Box 607						
	city Roosevelt						
	state UT	zip 84066	Phone Number:	(435) 722-2531			

Well 1

API Number	Well	QQ	Sec	Twp	Rng	County	
4301351524	Ute Tribal 19-11L		NESW	19	58	3W	Duchesne
Action Code	Current Entity Number	New Entity Number		Spud Date		Entity Assignment Effective Date	
В	99999	12210		1/2/201	3	1.0	7-2012
Comments: Please	e add well to existing 1	9-06 Tank Battery.				COM	! marmag

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County		
4301351523	Ute Tribal 19-11G	9-11G		NESW 19 5S			3W Duchesne		
Action Code	Current Entity Number	New Entity Number		Spud Date		Entity Assignment Effective Date			
В	99999	12210	I	1/4/201		1.0	1-2013		
	e add well to existing 1	9-06 Tank Battery.					Manager 4		

Well 3

API Number	Current Entity New Entity Number Number		QQ	Sec	Twp	Rng	County
Action Code			Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A Establish new entity for new well (single well only)
- **B** Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

RECEIVED

JAN 07 2013

Title	Date
Regulatory Compliance Spc.	1/4/2012
Signature	
Name (Flease Print)	
Name (Manus Polis)	
Rodrigo Jurado	

(5/2000)

BLM - Vernal Field Office - Notification Form

Oper	ator Petroglyph Operating	Rig Name/# Azte	c#6/3
-	nitted By Kenny Gray		
Well	Name/Number Ute Tribal 19-	-11G	
	Otr NESW Section 19		Range <u>R3W</u>
-	e Serial Number <u>UTE 14-20-</u>		_
	Number <u>43-013-51523-0000</u>		
Spud	<u> Notice</u> – Spud is the initial pelow a casing string.	•	
	Date/Time	AM [РМ
Casir times	ng – Please report time cas s. Surface Casing Intermediate Casing Production Casing Liner Other	ing run starts, not c	ementing
	Date/Time	AM 🗸	РМ
BOPI	E Initial BOPE test at surface BOPE test at intermediate 30 day BOPE test Other	•	RECEIVED APR 02 2013 DIV. OF OIL, GAS & MINING
	Date/Time 04/02/2013	11:00 AM	PM
Rem	arks		

Sundry Number: 37632 API Well Number: 43013515230000 FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below FOR PERMITTO DRILL from for such proposals. In year of well. Life in Visit of CA AGREEMENT NAME: Life in Visit of CARREMENT NAME: Life in Vi				FORM 9		
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. On or around the date referenced above, depending on equipment availability, Petroglyph Operating Company plans on perforating and fracture treating the well referenced above. We plan to perforate using Titan 3-1/8" Perf Guns containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 spf @ 120* phased. We intend to isolate zones using Halliburton 8K Composite Plugs and fracture treat using Delta 140 15# Gelled fluid containing 20/40 Mesh Sand. We plan to perforate the following: 3839-42, 3978-81, 4372-78, 4381-84, 4440-48, 4483-86, 4502-16, 4582-85, 4588-4601, 4606-14, 4616-20, 4994-5010, 5385-98, 5432-35, 5511-20, 5607-13. Following our completion all plugs will be drilled out and cleaned out, then the well will be swabbed and a pump ran. NAME (PLEASE PRINT) PHONE NUMBER Regulatory & Compliance Spc SIGNATURE NAME (PLEASE PRINT) PHONE NUMBER Regulatory & Compliance Spc SIGNATURE		L TUBING REPAIR	☐ VENT OR FLARE	WATER DISPOSAL		
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Rodrigo Jurado 435 722-5302 Regulatory & Compliance Spc SIGNATURE DATE	12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. On or around the date referenced above, depending on equipment availability, Petroglyph Operating Company plans on perforating and fracture treating the well referenced above. We plan to perforate using Titan 3-1/8" Perf Guns containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 spf @ 120* phased. We intend to isolate zones using Halliburton 8K Composite Plugs and fracture treat using Delta 140 15# Gelled fluid containing 20/40 Mesh Sand. We plan to perforate the following: 3839-42, 3978-81, 4372-78, 4381-84, 4440-48, 4483-86, 4502-16, 4582-85, 4588-4601, 4606-14, 4616-20, 4994-5010, 5385-98, 5432-35, 5511-20, 5607-13. Following our completion all plugs will be drilled out and cleaned out, then the well will be swabbed					
SIGNATURE DATE				рс		
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Sundry Number: 38719 API Well Number: 43013515230000

	STATE OF UTAH			FORM 9
ı	DEPARTMENT OF NATURAL RESOUF DIVISION OF OIL, GAS, AND M			5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3514
SUNDR	RY NOTICES AND REPORTS	S ON W	/ELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK			
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: UTE TRIBAL 19-11G		
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	;o			9. API NUMBER: 43013515230000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste	500 , Boise, ID, 83703		E NUMBER: 685-7685 Ext	9. FIELD and POOL or WILDCAT: ANTELOPE CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2245 FSL 1496 FWL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NESW Section:	HIP, RANGE, MERIDIAN: 19 Township: 05.0S Range: 03.0W Me	leridian: U	J	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICA	CATE NAT	TURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	ACIDIZE	☐ ALT	ER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	СНА	ANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	☐ con	MMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRA	ACTURE TREAT	NEW CONSTRUCTION
5/29/2013	OPERATOR CHANGE	PLU	IG AND ABANDON	PLUG BACK
SPUD REPORT	✓ PRODUCTION START OR RESUME		CLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDE	ETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VEN	IT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SIT	A STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	Поть	IED	OTHER:
40 DECODINE DRODOGED OF	COMPLETED OPERATIONS. Clearly show		act latelle but leave later	<u> </u>
	te of first production is 5/			Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 12, 2013
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUM 435 722-5302		FITLE Regulatory & Compliance S	рс
SIGNATURE N/A			DATE 6/5/2013	

RECEIVED: Jun. 05, 2013

Sundry Number: 39207 API Well Number: 43013515230000

	STATE OF UTAH		FORM 9				
	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ		5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3514				
SUNDF	RY NOTICES AND REPORTS ON	I WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In				
	oposals to drill new wells, significantly dec reenter plugged wells, or to drill horizonta m for such proposals.		7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK				
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: UTE TRIBAL 19-11G						
2. NAME OF OPERATOR: PETROGLYPH OPERATING (20		9. API NUMBER: 43013515230000				
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste		IONE NUMBER: 08 685-7685 Ext	9. FIELD and POOL or WILDCAT: ANTELOPE CREEK				
4. LOCATION OF WELL FOOTAGES AT SURFACE:			COUNTY: DUCHESNE				
2245 FSL 1496 FWL QTR/QTR, SECTION, TOWNSI Qtr/Qtr: NESW Section:	HIP, RANGE, MERIDIAN: 19 Township: 05.0S Range: 03.0W Meridia	n: U	STATE: UTAH				
11. CHEC	K APPROPRIATE BOXES TO INDICATE I	NATURE OF NOTICE, REPOR	T, OR OTHER DATA				
TYPE OF SUBMISSION		TYPE OF ACTION					
	ACIDIZE	ALTER CASING	CASING REPAIR				
NOTICE OF INTENT	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME				
Approximate date work will start:							
✓ SUBSEQUENT REPORT	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE				
Date of Work Completion: 6/7/2013	☐ DEEPEN ✓	FRACTURE TREAT	☐ NEW CONSTRUCTION				
0///2010	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK				
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION				
Date of Spud.	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON				
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL				
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION				
	WILDCAT WELL DETERMINATION	OTHER	OTHER:				
40 DECORIDE PROPOSED OR							
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. On 5/2/2013 Petroglyph Operating Company ran GR/CBL and found ETOC @ Surface. On 5/8/2013 we perforated the following: 5607-13, 5511-20, 5432-35, 5385-98, 4994-5010, 4616-20, 4606-14, 4588-4601, 4582-85, 4502-16, 4483-86, 4440-48, 4981-84, 4972-78, 3978-81 & 3839-42. We perforated using Titan 3-1/8" cont 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 spf @ 120* phased. Isolated w/ Halliburton 8K Composite Plugs & frac'd the following: 5511-5613: 544 Bbls fluid cont 40,200#'s sand 5385-5435: 491 Bbls fluid cont 40,000#'s sand 4994-5010: 482 Bbls fluid cont 40,100#'s sand 4582-4620: 723 Bbls fluid cont 70,000#'s sand 4372-4515: 863 Bbls fluid cont 90,100#'s sand 3839-3981: 357 Bbls fluid cont 72,400#'s sand We frac'd w/ Delta 140 15# gelled fluid cont 20/40 Mesh Sand. Plugs were drilled out and cleaned out to 5790', PBTD. Well was swabbed, pump ran. Put to pump on 6/7/2013.							
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance S	рс				
SIGNATURE N/A		DATE 6/19/2013					

(5/2000)

SHL 1496 FWL

BHL 2603 FNL, 2494 FWL

			DEPAR		ATE OF			URCES	3				(hi	ghlight	change	· · · · · · · · · · · · · · · · · · ·		ORM 8
			DIVISIO	IO NC	FOIL, G	SAS A	AND M	IININ	G				1	ease de 14-20-			SERIAL NUN	IBER:
WELL	CON	IPLE.	TION	OR F	RECON	ИРL	ETIO	N RE	EPOF	RT AND	LO	G		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Ute Indian Tribe				
1a. TYPE OF WELL:		(VELL Z	Ç V	SAS D		DRY [J	ОТН	ER				NIT or CA 14-20-		MENT NA 4650	ME	
b. TYPE OF WORK NEW WELL	: HORIZ. [LATS. [7 [DEEP-	F	RE- NTRY		DIFF. RESVR.	7	ОТН	ER				VELL NAM Ute Tr		UMBER: 9-110	<u> </u>	
2. NAME OF OPERATOR: Petroglyph Operating Company, Inc.											PI NUMBI		~					
3. ADDRESS OF OP	·	ung Co	mpany	PHONE NUMBER:									43013		OR WILD	CAT		
P.O. Box 60			ory Roc	sevel	t	STATE	UT	ZIP 840)66			2-2531		Antelo	pe C	reek		
4. LOCATION OF WI AT SURFACE:			46' FW	'L									1	QTR/QTR MERIDIAI ESW			SHIP, RAN	ge, U
AT TOP PRODUC	CING INTER	RVAL REPO	RTED BEL	ow: 2	576' FS	L 27	'37' FV	٧L										
AT TOTAL DEPTI	H: 266	4' FSL	2944' F	=WL									1	COUNTY Ouche:	sne		13. STATE	UTAH
14. DATE SPUDDED 1/4/2013): 	15. DATE 4/7/2	T.D. REACH 013	HED:	16. DATE 0			A	BANDON	ED 🔲	READY T	TO PRODUC	CE 🔽		VATION: 093' F		B, RT, GL):	
18. TOTAL DEPTH:	MD 5.	,855	1:	9. PLUG	BACK T.D.:		5,790		20. IF I	MULTIPLE CO	OMPLETI	ONS, HOW	MANY? *	21. DEP	TH BRID			
no Type Electric	TVD 5		<u> </u>	SC DUNG	Yahamit mana		5,638		<u> </u>	23.						TV	'D	
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) ACTR, Borehole Volume Plot, Cement Bong Log, SDDSN WAS WELL CORED? WAS DST RUN? DIRECTIONAL SURVEY? NO YES (Submit analysis) (Submit report) VES (Submit copy)								;)										
24. CASING AND LI	NER RECO	RD (Repor	t all strings	set in we	ell)													
HOLE SIZE	SIZE/G	RADE	WEIGHT	(#/ft.)	ТОР (МІ	D)	BOTTOM	M (MD)		EPTH		IT TYPE & F SACKS	SLUI VOLUM		СЕМЕ	NT TOP *	* AMOUN	NT PULLED
20	16	J-55	75		0		74							82		0		nductor
12.25	8.625	J-55	24		0		55				G	400	<u> </u>		ļ	0		201
7.875	5.5	J-55	15.	5	0		5,8	45			G	840	259 0			U	+-	CBL
																	_	A
						+							<u> </u>		 		-	
25. TUBING RECOR	<u> </u>			1					<u> </u>		L		<u> </u>		L			
SIZE		SET (MD)	PACKE	ER SET (N	/ID)	SIZE	I	DEPTH	SET (MD	PACKE	R SET (M	D)	SIZE		DEPTH S	ET (MD)	PACKER	R SET (MD)
2.875		,654						· · · · · · · · · · · · · · · · · · ·										
26. PRODUCING IN	TERVALS									27. PERFO	RATION I	RECORD						
FORMATION	NAME	TO	P (MD)	вотто	M (MD)	TOP (вотто	M (TVD)	INTERVA	L (Top/Bo	ot - MD)	SIZE	NO. HOI	ES.		RATION ST	ATUS
(A) Green Riv	er	3	839	5,6	313	3,7	05	5,4	61	3,839		5,613	0.42	462	2 Or	pen 🗸	Squeezec	<u> </u>
(B)											,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Op	pen	Squeezeo	<u> </u>
(C)															O;	pen	Squeezec	<u>' </u>
(D)															Op	oen	Squeezec	<u>' 🗆</u>
28. ACID, FRACTUR	RE, TREATI	MENT, CEN	IENT SQUE	EZE, ETO	5.							~~~						
DEPTHI	NTERVAL		T	<u></u>					AM	OUNT AND T	YPE OF I	MATERIAL						
3,839'-5,613	1		3,46	0 Bbls	of Delt	a 140) 15# (gelled	fluid (ontainin	g 350	,800#'s	of 20/	40 me	esh sa	and.		
				<u> </u>														
29. ENCLOSED ATT	FACHMENT	rs:														30. WE	LL STATUS	it
paramy	ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY OTHER: UDOGM Form 7																	

(CONTINUED ON BACK)

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

5/29/2013		TEST DATE: 6/26/201:	3			HOURS TESTED:						TEST PRODUCTION RATES: →	OIL – BBL: 128	GAS - MCF: 182	WATER - BBL:	: PROD. METHOD: Rod Pump
СНОКЕ SIZE: 29/64	TBG. PRESS.	CSG. PRESS. 480	API GRAVITY 38.90	BTU - GAS		24 HR PRODUCTION RATES: →	OIL – BBL: 128	GAS - MCF: 182	WATER - BBL:	INTERVAL STATUS: Open						
4-34-4-110000000000000000000000000000000		and the second second second second second		INT	ERVAL B (As show	vn in item #26)	<u> </u>									
DATE FIRST PRO	ATE FIRST PRODUCED:		ST DATE: HOURS TESTED: TEST PROD RATES: -		TEST DATE:				OIL BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:				
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:						
**************************************				INT	ERVAL C (As show	vn in item #26)			, , , , , , , , , , , , , , , , , , ,							
DATE FIRST PRO	ODUCED:	TEST DATE:		HOURS TESTED	D:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS MCF:	WATER - BBL:	PROD. METHOD:						
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL BBL:	GAS MCF:	WATER - BBL:	INTERVAL STATUS:						
**************************************	<u> </u>	<u></u>		INT	ERVAL D (As show	wn in item #26)										
DATE FIRST PRO	ODUCED:	TEST DATE:		HOURS TESTER):	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:						
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:						

tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Used for Fuel

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth
······································				Trona	2,460
				Mahogany	2,604
				Garden Gulch	3,342
				B Marker	3,766
				X Marker	4,264
				Y Marker	4,300
				Douglas Creek	4,406
				B Lime	4,793
				Castle Peak	5,370
				Basal Carbonate	5,791

^{35.} ADDITIONAL REMARKS (Include plugging procedure)

All frac and perf info is condensed. Please see NOI and Subsequent Frac Sundry for detailed record.

36. I hereby certify that the foregoing and attached information is complete and correct as determined f	from all available records.
NAME (PLEASE PRINT) Rodrigo Jurado	TITLE Regulatory Compliance Specialist
SIGNATURE KANGA MANA	DATE 7/26//3

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- · significantly deepening an existing well bore below the previous bottom-hole depth

34. FORMATION (Log) MARKERS:

drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

Send to: Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

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^{*} ITEM 20: Show the number of completions if production is measured separately from two or more formations.

^{**}ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

(5/2000)







REPORT OF WATER ENCOUNTERED DURING DRILLING

PI number: <u>430</u>	1351523							
ell Location: Q0	NESW Sect	ion <u>19</u> To	ownship <u>5S</u> Range <u>3W</u> (County Duchesi	ne			
ell operator: P	etroglyph Ope	rating Comp	any, Inc.					
Address: P	.O. Box 607	·						
cit	Roosevelt		state UT zip 84066	Phone: (435) 7	22-2531			
rilling contractor	ProPetro Se	ervices						
Address: 1	422 East 1500) South						
<u>cit</u>	city Vernal state UT zip 84078 Phone: (435) 789-1735							
/ater encountere								
	DEPT	Н	VOLUME		QUALITY			
	FROM	то	(FLOW RATE OR HEAD)	1	ESH OR SALTY)			
	0	550	0	No Wa	ater Encountered			
Lucquisine								
ormation tops: (Top to Bottom)			2		3			
	4_		5		6			
	7 _		8		9			
	10 _		4 4		12			
			ncountered, please attach a cop	y of the report t	o this form.			
NAME (PLEASE PRINT)	•		F	egulatory Com	oliance Specialist			
NAME (PLEASE PRINT) _	27 7 /				3			

Job Number: UT131003	State/Country: Utah/USA
Company: Petroglyph	Declination: 11.17
Lease/Well: Ute Tribal_19-11G	Grid: True
Location: Sec. 19, T5S, R3W	File name: C:\DOCUME~1\PAYZONE\DESKTOP\UTETR\-1\UT131003.SVY
Rig Name: Aztec #673	Date/Time: 07-Apr-13 / 12:25
RKB: 6094'	Curve Name: Actual
G.L. or M.S.L.: GL-6079'	

Payzone Directional Services LLC

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 67.90
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Dogleg Severity Dea/100		9	S	70.	80.	.71	1.35	7	00.1	3.33	7.07	00.0	1.02
SURE Direction Dea		S	90.0	4.33	70.71	26.09	41.34	F2 F7	20.00	61.12	65.57	67.87	68.80
C L O S U R E Distance Direction FT Dea		00	8	P. 6	70.	1.62	2.89	4 97	10.4	8.64	14 02	20.59	28.16
Vertical Section FT		C	8. 8	5, 5	÷ ;	1.21	2.58	2 2		8.58	14.01	20.59	28.16
E-W FT		S	<u> </u>	i t	- F	۲.	1.91	4 00	7	7.56	12.77	19.07	26.26
N-S FT		00	46	£ &	. *	1.40	2.17	2.95	101	4.1/	5.80	7.76	10.18
True Vertical Depth		00	587.00	648 00	200.002	68.80	770.98	830.93	1000	890.81	952.57	1014.22	1075.75
Drift Direction Deg		00.	2.99	27.30	16.91	10.01	66.50	71.16	7 4 4	01.17	73.84	71.90	70.80
Incl Angle Deg	The second secon	00.	60:	.62	07	50.	1.67	2.60	4 60	4.60	5.50	6.72	7.34
Measured Depth FT		00.	587.00	648.00	710.00	00.71	771.00	831.00	801.00	09.1.60	953.00	1015.00	1077.00

Dogleg Severity Deq/100	1.42 1.30 1.57 1.29 1.18	1.68 .94 1.36 1.72	1.21 1.60 .40 .55	.86 .92 .69 .52	.99 1.74 .55 .64 .29	44. 44. 10. 10.	1.56 .62 .41 .54
CLOSURE Direction Deq	69.30 69.77 70.16 70.24 70.06	69.63 69.06 68.79 68.96 69.35	69.77 70.07 70.23 70.29 70.29	70.06 69.87 69.66 69.47 69.36	69.25 69.10 68.93 68.79 68.68	68.56 68.41 68.28 68.23 68.23	68.18 68.12 68.06 68.01
C L C Distance FT	36.55 45.83 56.05 67.17 79.03	91.69 105.08 118.87 133.14 148.06	163.66 180.16 197.19 214.30 232.17	250.40 269.12 288.20 307.73	348.30 369.61 391.31 412.80 434.25	456.05 477.69 498.89 520.10 541.57	563.77 586.61 609.53 632.22
Vertical Section FT	36.54 45.81 56.01 67.11 78.97	91.65 105.05 118.86 133.12 148.01	163.58 180.03 197.03 214.11 231.97	250.22 268.96 288.06 307.62	348.20 369.53 391.25 412.75 434.21	456.02 477.67 498.87 520.09 541.56	563.76 586.60 609.53 632.21
E-W FT	34.19 43.01 52.73 63.22 74.29	85.96 98.14 110.83 124.27 138.55	153.57 169.37 185.57 201.74 218.47	235.38 252.68 270.23 288.20 306.76	325.70 345.29 365.16 384.84 404.53	424.48 444.18 463.46 483.00 502.91	523.37 544.34 565.39 586.22
S-N FF	12.92 15.85 19.03 22.71 26.95	31.91 37.55 43.00 47.80 52.20	56.59 61.41 66.69 72.28 78.56	85.41 92.62 100.16 107.90 115.56	123.42 131.85 140.67 149.33 157.88	166.73 175.76 184.64 192.90 200.94	209.56 218.64 227.75 236.73
True Vertical Depth	1137.18 1198.48 1259.63 1320.63	1442.17 1502.70 1563.14 1623.47 1683.64	1743.64 1803.40 1863.01 1922.60 1983.01	2042.27 2101.37 2160.35 2219.18 2277.84	2336.35 2394.57 2452.63 2510.78 2568.95	2626.98 2685.07 2743.32 2801.58 2859.74	2917.63 2975.26 3032.87 3090.56
Drift Direction Deg	71.11 72.08 71.77 69.62 68.52	65.49 64.87 68.58 72.03 73.66	73.75 72.38 71.55 70.32 68.56	67.33 67.41 66.10 67.29 67.82	67.11 66.37 65.75 66.76 66.32	65.84 64.87 65.66 68.52 67.51	66.80 66.37 66.85 66.50
Incl Angle Deg	8.22 9.01 9.98 10.68 11.38	12.22 12.79 12.96 13.67 14.24	14.99 15.91 16.00 16.04	17.31 17.88 18.02 18.76 19.03	19.60 20.65 20.39 20.21 20.30	20.92 20.00 20.04 20.00 20.52	21.45 21.80 21.62 21.31
Measured Depth FT	1139.00 1201.00 1263.00 1325.00 1387.00	1449.00 1511.00 1573.00 1635.00	1759.00 1821.00 1883.00 1945.00 2008.00	2070.00 2132.00 2194.00 2256.00 2318.00	2380.00 2442.00 2504.00 2566.00 2628.00	2690.00 2752.00 2814.00 2876.00 2938.00	3000.00 3062.00 3124.00 3186.00

RECEIVED: Jul. 26, 2013

Dogleg Severity Dea/100	4. 1. 28 1.09 1.09	.85 .07 .50 .50	66. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1.78 1.80 1.45	1.60 1.51 1.12 1.46	1.20 .59 1.49 1.21	1.08 .76 .56 .45	1.35 .40 .77.
CLOSURE Direction Dea	67.96 67.89 67.81 67.74	67.66 67.55 67.47 67.43	67.28 67.28 67.20	67.12 67.04 66.97	66.90 66.83 66.76 66.71 66.65	66.53 66.55 66.55 66.52 66.50	66.50 66.50 66.51 66.53 66.53	66.60 66.62 66.65 66.70
C L C Distance FT	654.59 676.53 697.89 718.76	739.32 759.74 780.36 800.52	839.49 839.49 857.75 875.12	891.50 906.71 920.87	934.04 946.01 957.49 967.78 977.45	986.09 994.05 1001.46 1007.97	1020.15 1025.63 1030.88 1036.26 1041.56	1046.30 1050.54 1054.82 1058.79
Vertical Section FT	654.59 676.53 697.89 718.75	739.31 759.72 780.34 800.50	839.45 839.45 857.70 875.06	891.41 906.61 920.75	933.90 945.84 957.30 967.57 977.21	985.84 993.79 1001.18 1007.68	1019.85 1025.33 1030.57 1035.97 1041.28	1046.03 1050.28 1054.57 1058.56
E-W FT	606.75 626.78 646.20 665.21	683.81 702.17 720.82 739.22 757.33	774.72 791.19 806.75	821.36 834.89 847.47	859.15 869.71 879.82 888.89 897.42	905.08 912.16 918.74 924.54 930.08	935.51 940.54 945.42 950.54	960.25 964.28 968.43 972.42
N-S T7	245.64 254.65 263.58 272.24	281.08 290.09 298.97 307.24 315.31	323.34 331.30 339.10	346.61 353.67 360.28	366.48 372.21 377.76 382.72 387.35	391.42 395.10 398.53 401.55 404.36	406.86 409.03 410.97 414.20	415.53 416.90 418.07 418.85
True Vertical Depth	3148.38 3206.37 3264.56 3322.94	3381.42 3439.95 3499.46 3558.09 3616.83	3675.80 3735.04 3794.55	3854.33 3914.42 3974.77	4035.34 4095.15 4157.08 4217.20 4279.45	4340.84 4401.31 4462.86 4524.52 4586.21	4647.92 4710.68 4772.46 4834.22 4895.99	4957.81 5018.66 5080.51 5142.37
Drift Direction Deg	66.59 64.92 65.71 65.31	63.86 63.83 65.31 66.23 65.75	64.65 63.77 62.94	62.65 62.20 62.38	61.66 61.40 61.00 61.75 61.22	62.85 62.28 62.63 62.32 63.86	66.76 66.67 69.90 72.91 74.41	73.00 69.53 78.89 78.93
Incl Angle Deg	21.01 20.48 19.86	19.29 19.25 19.03 18.94	17.62	14.81 13.70 12.80	11.82 10.90 10.20 9.32 8.40	7.69 7.34 6.42 5.67 5.84	5.23 4.75 4.96 5.05 4.83	4.00 4.01 4.00 3.52
Measured Depth FT	3248.00 3310.00 3372.00 3434.00	3496.00 3558.00 3621.00 3683.00 3745.00	3807.00 3869.00 3931.00	3993.00 4055.00 4117.00	4179.00 4240.00 4303.00 4364.00 4427.00	4489.00 4550.00 4612.00 4674.00 4736.00	4798.00 4861.00 4923.00 4985.00 5047.00	5109.00 5170.00 5232.00 5294.00

Dogleg Severity	.49 .49 .76 .67	.78 .08 .70 .00
SURE Direction	1062.35 66.74 1066.00 66.79 1069.52 66.83 1072.61 66.89	67.01 67.08 67.15 67.21
CLC Distance	1062.35 1066.00 1069.52 1072.61	1077.47 1079.41 1081.11
Vertical Section	1062.14 1065.80 1069.34 1072.44	1077.34 1079.30 1081.02 1082.54
E-W FT	976.03 979.71 983.29 986.53 989.43	991.93 994.20 996.23 998.11
S-N TT	419.49 420.15 420.74 420.99 420.99	420.75 420.36 419.90 419.32
True Vertical Depth	5204.26 5267.15 5329.05 5390.96 5452.89	5514.84 5576.80 5638.76 5702.73
Drift Direction Deg	81.26 78.54 82.89 88.43 91.85	100.03 99.28 107.06 107.06
Incl Angle Deg	3.25 3.56 3.16 2.86 2.50	2.15 2.11 1.76 iit
Measured Depth FT	5356.00 5419.00 5481.00 5543.00 5605.00	5667.00 5729.00 5791.00 Projection to Bit 5855.00

